CH-U350TX

HDMI/VGA over IP Transmitter with USB/KVM Extension

This unit is part of a 4K UHD Multi-Function Extension system that allows you to extend HDMI or VGA signals along with KVM using the TCP/ IP protocol over regular Cat.5e/6/7 network cable. This extender

supports the transmission of Ultra High-Definition signals (up to 4K@30Hz YUV 4:4:4 or 4K@60Hz YUV 4:2:0) with audio and USB up to 100m on a single cable. The transmission distance can be further extended (up to 100m per segment) by using gigabit network switches, allowing the user to cascade the system without signal loss or introducing delay.

It is also possible to have the extension system's Transmitter operate in multicast mode, allowing you to send a single AV signal to a large number of Receivers within the same local network. It is useful for user to create large multi-display video walls with amazing simplicity. This system also features bi-directional IR and RS-232 pass-through, analog line level in/out, and a microphone input (on the Receiver), providing the user with a variety of audio options. The USB functionality allows the system to act like a remote USB hub which, when combined with the VGA input/output feature, provides a flexible remote KVM platform.

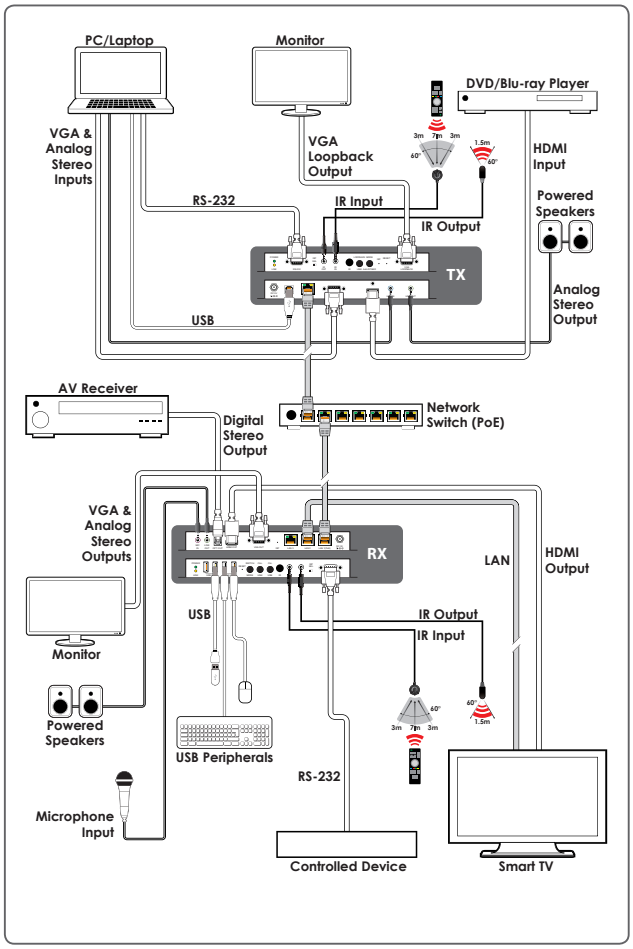
PANELS

Front View　　Rear View

FEATURES

- HDMI 2.0 and DVI 1.0 compliant
- HDCP 1.4 & 2.2 compliant
- 1×HDMI input, 1×VGA input & 1×VGA bypass output
- Video, audio and control transmission over TCP/IP in Unicast (point-to-point) or Multicast (single-to-many) modes
- Support with 90° increments ratation
- HDMI input resolutions up to 4K@60Hz (YUV 4:2:0, 8-bit) or 4K@30Hz (YUV 4:4:4, 8-bit)
  Note: 4K@50/60Hz (YUV 4:2:0) sources are automatically converted to 4K@25/30Hz (RGB) for output
- VGA input and output resolutions up to WUXGA (RB)
- Supports pass-through of audio formats including LPCM 2.0/5.1/7.1, and Bitstream over HDMI
  Note: The optical output on Receivers can only support LPCM 2.0 & Bitstream sources.
- The analog Line In on the Transmitter sends audio directly to the analog Line Out and is inserted into the HDMI output on connected Receivers
- The Mic In on the Receiver sends audio directly to the analog Line Out on the Transmitter
- Both Tx and Rx may powered directly by PoE when connected to a Gigabit Ethernet switch that provides PoE (802.3af)
- Supports USB keyboard, mouse and storage extension and IR ,RS-232 bypass
- Unit can be controlled via WebGUI, Telnet, and front panel controls

DIAGRAM



ORDERING INFORMATION

Recommended Products

CDPS-CS7	IP Master Controller
CH-U331TX	HDMI/VGA over IP Transmitter with USB/KVM Extension
CH-U331RX	HDMI/VGA over IP Receiver with USB/KVM Extension
CH-U331TR	HDMI/DP UHD AV OVER IP Transceiver with USB/KVM Extension
CH-331H-TX	HDMI over IP Transmitter
CH-331H-RX	HDMI over IP Receiver

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SPECIFICATIONS

Interfaces

Input Ports	1 HDMI (Type-A) 1 VGA 1 Unbalanced Stereo (3.5mm)
Output Port	1 VGA 1 Cat.5e/6/7 (RJ45) 1 Unbalanced Stereo (3.5mm)
Control Port	1 USB Type-B 1 IR Extender [3.5mm] 1 IR Blaster [3.5mm] 1 RS232

Video

Input Signal Types	4096×2160p@60(YUV420)		
Output Signal Types	VGA to 1920x1200@60Hz Analog		
Input Color Depth	8-bit, 10-bit, 12-bit		
Output Color Depth	8-bit		
HDCP Compliance	1.x, 2.2		
		Resolutions	**Bandwidth**
Maximum Input	HDMI	4096×2160p@60 (YUV420)	10.2Gbps
	VGA	1920×1200p@60RB	165MHz
Maximum Output	VGA	1920×1200p@60RB	165MHz

Note: Bandwidth values represent the maximum supported by the interface. Processable signal maximums may be lower.

Audio

Input Signal Types	HDMI, Unbalanced Stereo
Output Signal Types	Unbalanced Stereo
Digital Formats	HDMI 2CH LPCM, 8CH LPCM, Standard Bitstream

Power

Power Supply	5V/2.6A
Power Consumption	7.15W (Full load)

Enclosure

Chassis Material	Metal (Steel)
Chassis Color	Black
Dimensions (W×H×D)	231.5mm×25mm×108mm (W×H×D) [Case Only] 231.5mm×25mm×120mm (W×H×D) [All Inclusive]
Weight	660g

Field Firmware Update

WebGUI

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